

PATENT COOPERATION TREATY

CORRECTED VERSION

PCT

INTERNATIONAL SEARCH REPORT (PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PYXIS-PCT-1	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/CA2004/001507	International filing date (<i>day/month/year</i>) 26 July 2004 (26-07-2004)	(Earliest) Priority date (<i>day/month/year</i>) 01 August 2003 (01-08-2003)	
Applicant PETERSON PERRY			
<p>This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.</p>			
<p>This international search report consists of a total of <u>5</u> sheets.</p>			
<p><input checked="" type="checkbox"/> It is also accompanied by a copy of each prior art document cited in this report.</p>			
<p>1. Basis of the report</p>			
<p>a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</p>			
<p><input type="checkbox"/> the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).</p>			
<p>b. <input type="checkbox"/> With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.</p>			
<p>2. <input type="checkbox"/> Certain claims were found unsearchable (See Box II).</p>			
<p>3. <input type="checkbox"/> Unity of invention is lacking (See Box III).</p>			
<p>4. With regard to the title.</p>			
<p><input checked="" type="checkbox"/> the text is approved as submitted by the applicant.</p>			
<p><input type="checkbox"/> the text has been established by this Authority to read as follows :</p>			
<p>5. With regard to the abstract.</p>			
<p><input checked="" type="checkbox"/> the text is approved as submitted by the applicant.</p>			
<p><input type="checkbox"/> the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.</p>			
<p>6. With regard to the drawings,</p>			
<p>a. The figure of the drawings to be published with the abstract is Figure No. 12</p>			
<p><input checked="" type="checkbox"/> as suggested by the applicant.</p>			
<p><input type="checkbox"/> As selected by this authority, because the applicant failed to suggest a figure.</p>			
<p><input type="checkbox"/> As selected by this Authority, because this figure better characterizes the invention.</p>			
<p>b. <input type="checkbox"/> None of the figures is to be published with the abstract.</p>			

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/CA2004/001507**Box No. I****Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)**

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material
 - in written format
 - in computer readable form
 - c. time of filing/furnishing
 - contained in the international application as filed
 - filed together with the international application in computer readable form
 - furnished subsequently to this Authority for the purposes of search
2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

- 1 Claims Nos. :
because they relate to subject matter not required to be searched by this Authority, namely:

- 2 Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :

- 3 Claims Nos. :
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule

Box III Observation where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

- 1 As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
- 2 As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
- 3 As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos. :

- 4 No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos. :

Remark on Protest The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC' G06T-9/00 G06F-12/00

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC' G06T-9/00 G06T-12/00 USPC: 345/423

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)
USPTO WEST, Canadian Patent Database, IEEE Explore, QWEB (Pluspat, Inspec), Delphion. Search terms: centroid ,voronoi ,cell

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Kevin Sahr et al., "Geodesic Discrete Global Grid Systems", Cartography and Geographic Information Science, Vol. 30, No. 2, April 2003, pp. 121-134 http://www.fs.fed.us/pnw/wenlab/pdf/gdgg03.pdf p. 121 left column, first paragraph; p. 122, left col. 2 nd paragraph; p. 127-128 and Fig. 7	1 - 5, 7 - 11, 14 - 21
P, Y	Hipparchus Tutorial and Programmer's Guide, Internet Edition (corresponding to Hipparchus Release 3.4), last updated 2004/02/27, by Ron Gilmore, Vice President and John Russel, President, Geodyssey Limited, Calgary (Alberta), Canada, copyright Geodyssey Limited, 1993-2004. http://www.geodyssey.com/tutorial/tc00.html Chapter 6: Working With Voronoi Cells	14 - 21
A	US-6,384,826 (Bern et al.), May 7, 2002 entire document	1 - 13

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

- * Special categories of cited documents : "T"
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international-type search
15 November 2004 (15-11-2004)Date of mailing of the international-type search report
17 December 2004 (17-12-2004)Name and mailing address of the ISA/CA
Commissioner of Patents
Canadian Patent Office - PCT
Ottawa/Gatineau K1A 0C9
Facsimile No. 1-819-953-9358Authorized officer
Serge Carrier (819) 997-2322

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2004/001507

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US6384826	07-05-2002	EP0981108 A2 JP2000076485 A US6384826 B1	23-02-2000 14-03-2000 07-05-2002